	Α	В	С	D	Е	F	G	Н	I		J	K	L
1				Backgrou	und Statistic	s for Data	Sets with	Non-Dete	cts				
2	Us	ser Selec	ted Options	3									
3	Date/T	ime of Co	mputation	7/30/2013 2:43:07 PM									
4			From File	WorkShe	orkSheet.xls								
5		Ful	I Precision	OFF									
6	Coi	nfidence	Coefficient	95%									
7			Coverage	95%									
8	rent or Fut	ure K Oh	•	1									
9		rent or Future K Observations 1 mber of Bootstrap Operations 2000											
	IIIDOI OI D	ibei oi booteitap Operatione 2000											
10	PCB	DOR											
11	1 05	- СВ											
12	Conorol	Congral Statistics											
13	General	General Statistics Total Number of Observations 29 Number of Distinct Observations 29											
14			TOTALINU	illibel of O		_		-					
15				0	Minimum	0.598		2.243					
16				Seco	ond Largest Maximum			3.079 3.922					
17				7.811		Third Quartile							
18					Mean of Variation	3.368		SD					
19			(0.578		Skewness							
20				1.031	SD of logged Data 0.65								
21													
22		Critical Values for Background Threshold Values (BTVs)											
23			Toleran	ce Factor I	K (For UTL)	2.232					d2ma	ax (for USL)	2.73
24													
25	Normal GOF Test												
26			Sha	0.921	0.921 Shapiro Wilk GOF Test								
27			5% Shap	0.926		Data Not	Norma	l at 5	5% Signific	cance Level			
28				0.171	Lilliefors GOF Test								
29			5%	Lilliefors C	ritical Value	0.165	Data Not Normal at 5% Significance Level						
30		Data Not Normal at 5% Significance Level											
31													
32				Bacl	kground Sta	tistics Ass	uming No	rmal Distr	ibution				
33			95% UTL		6 Coverage						90% Pe	ercentile (z)	5.866
34	95% UPL (t)					6.74						ercentile (z)	
35		95% USL 8.688 99% Percentile (z)											
36													
37						Gamma	GOF Test						
38				A-D T	est Statistic	0.424	100		on-Dai	rlina	Gamma (GOF Test	
					etected d			_			icance I ev		
39					0.753 etected data appear Gamma Distributed at 5% Signific 0.102 Kolmogrov-Smirnoff Gamma GOF Test								
40					etected d	•				at 5% Signifi	icance Lev		
41					ritical Value ata appear (at 5 % Olgi iii	icance Lev
42				elected de	ala appeal (Janina Di	su ibuteu e	at 5 /6 Sigil	ilicalic	e re	VEI		
43						Gamma	Statistics						
44	-												
45	-				k hat (MLE) a hat (MLE)		Theta star (bias corrected						2.601
46						1.172			тнета		•	•	1.295
47	nu hat (MLE) MLE Mean (bias corrected)					166.8					•	s corrected)	150.8
48			MLE	iviean (bias	corrected)	3.368				ML	⊏ >a (bias	s corrected)	2.089
49	ļ												
50					ground Sta		uming Ga	mma Distr	ibution	1			6.167
51			lilferty (WH)	7.527									
52	95% Hawkins Wixley (HW) Approx. Gamma UPL					7.736 9.396	95% Percentile						7.37
53		95% WH Approx. Gamma UTL with 95% Coverage											
54	95% HW	Approx. (Gamma UTL			9.847							
55		95% WH USL 11.53 95% HW USL 12.34										12.34	
56	, , , , , , , , , , , , , , , , , , ,												
57	Lognormal GOF Test												
58	Shapiro Wilk Test Statistic 0.948 Shapiro Wilk Lognormal GOF Test												
59	1	5% Shapiro Wilk Critical Value					Data appear Lognormal at 5% Significance Level						
60	1			0.126	Lilliefors Lognormal GOF Test								
61	1		5%	0.165	Da						evel		
62	1	5% Lilliefors Critical Value 0.165 Data appear Lognormal at 5% Significance Level Data appear Lognormal at 5% Significance Level											
						J	8						

	Α	В	С	D	Е	F	G	Н	1	J	K	L		
63														
64	Background Statistics assuming Lognormal Distribution													
65	95% UTL with 95% Coverage 12.1									90% Percentile (z)				
66				95	5% UPL (t)	8.71		95% Percentile (z)						
67					95% USL	16.77		12.87						
68														
69	Nonparametric Distribution Free Background Statistics													
70	Data appear Gamma Distributed at 5% Significance Level													
71														
72	Nonparametric Upper Limits for Background Threshold Values													
73	Order of Statistic, r 29 95% UTL with 95% Coverage										6 Coverage	7.811		
74				App	roximate f	1.526	Co	nfidence C	nce Coefficient (CC) achieved by UTL					
75	95% Per	centile Boo	otstrap UTL	with 95%	Coverage	7.811	959	95% BCA Bootstrap UTL with 95% Coverage						
76					95% UPL	7.338		90% Percentile						
77			Ć	90% Cheby	shev UPL	9.314		95% Percentile						
78			Ć	95% Cheby	shev UPL	12.01		99% Percentile						
79		95% USL 7.811												
80														
81	Note: The use of USL to estimate a BTV is recommended only when the data set represents a background													
82	data set free of outliers and consists of observations collected from clean unimpacted locations.													
83	The use of USL tends to provide a balance between false positives and false negatives provided the data													
84	represents a background data set and when many onsite observations need to be compared with the BTV.													
85														